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| APPLICATION NO.  | FILING DATE     | FIRST NAMED INVENTOR   | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|--|-----------------|------------------------|---------------------|------------------|--|
| 10/604,517   | 07/28/2003      | Timothy H. Daubenspeck | BUR920020115US1     | 1516             |  |
| 23389  | 7590 03/22/2004 |                        | EXAMINER            |                  |  |
| SCULLY SCOTT MURPHY & PRESSER, PC<br>400 GARDEN CITY PLAZA |                 |                        | DUONG, I            | DUONG, KHANH B   |  |
| GARDEN CITY, NY 11530                                      |                 | ART UNIT               | PAPER NUMBER        |                  |  |
|  | •               |                        | 2822                | -                |  |

DATE MAILED: 03/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

|  | <del></del>   | Application No.   | Applicant(s)   |  |  |
|--|---|---|--|--|--|
| Office Action Summary  |   | 10/604,517  | DAUBENSPECK ET AL.   |  |  |
|  |   | Examiner  | Art Unit   |  |  |
|  |   | Khanh Duong   | 2822   |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply   |   |   |  |  |  |
| THE MAILING D.  Extensions of time mafter SIX (6) MONTH:  If the period for reply  NO period for reply  Failure to reply within  Any reply received by   | STATUTORY PERIOD FOR REPLATE OF THIS COMMUNICATION. ay be available under the provisions of 37 CFR 1.1 S from the mailing date of this communication. specified above is less than thirty (30) days, a replais specified above, the maximum statutory period to the set or extended period for reply will, by statute the Office later than three months after the mailing dijustment. See 37 CFR 1.704(b).   | 36(a). In no event, however, may a reply be tim<br>y within the statutory minimum of thirty (30) days<br>will apply and will expire SIX (6) MONTHS from<br>the cause the application to become ABANDONE | nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133). |  |  |
| Status   |   |   |  |  |  |
| 2a)☐ This action<br>3)☐ Since this a   | e to communication(s) filed on <u>28 July</u> is <b>FINAL</b> . 2b) This application is in condition for alloward coordance with the practice under Expression is the Expression is the practice under Expression is the Expr | s action is non-final.<br>nce except for formal matters, pro  |  |  |  |
| Disposition of Clain   | ns  |   |  |  |  |
| 4a) Of the a 5) ☐ Claim(s) 6) ☐ Claim(s) 7) ☐ Claim(s)   | 15 is/are pending in the application above claim(s) is/are withdray is/are allowed is/are rejected is/are objected to. 15 are subject to restriction and/or   | wn from consideration.  |  |  |  |
| Application Papers   |   |   |  |  |  |
| 10) The drawing Applicant ma Replacemen  | cation is objected to by the Examine g(s) filed on is/are: a) accay not request that any objection to the the drawing sheet(s) including the correct declaration is objected to by the Examine  | epted or b) objected to by the Eddrawing(s) be held in abeyance. See tion is required if the drawing(s) is obj  | e37 CFR 1.85(a).<br>ected to. See 37 CFR 1.121(d).   |  |  |
| Priority under 35 U.   | S.C. § 119  |   |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul> |   |   |  |  |  |
| Attachment(s)  1) Notice of Reference  | s Cited (PTO-892)<br>on's Patent Drawing Review (PTO-948)   | 4) ☐ Interview Summary (<br>Paper No(s)/Mail Da   |  |  |  |
|  | re Statement(s) (PTO-1449 or PTO/SB/08)   |   | atent Application (PTO-152)  |  |  |

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## **DETAILED ACTION**

This Office Action is in response to the filing of the application on July 28, 2003.

Accordingly, claims 1-15 are pending in the application.

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 8-15, drawn to a process of making a semiconductor device, classified in class 438, subclass 620.
- II. Claims 1-7, drawn to semiconductor device, classified in class 257, subclass 620.The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, instead of using a wet etch, perform selective deposition of metal interconnect and barrier layers so as to form a crack stop.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

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A telephone call was made to Steven Fischman on March 9, 2004 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Duong whose telephone number is (571) 272-1836. The examiner can normally be reached on Monday - Friday (9:00 AM - 6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian, can be reached on (571) 272-1852. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3431 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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March 9, 2004

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